

**Patent Number(s):** DE2014818-B2; DE2014818-A; FR2083596-A; **GB1337751-A;** CA971297-A; DE2014818-B; CS7101982-A

**Title:** Polyethylene terephthalate prodn - continuously, using temp jump in last esterification stage for reduced glycol consumption

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**Patents Cited by Inventor:** 0    **Citing Patents:** 3    **Articles Cited by Inventor:** 0

**Patents Cited by Examiner:** 0    **Articles Cited by Examiner:** 0

**Abstract:**

Jump in reaction temp. and shorter stay time are used in at least last chamber of ester exchanger stage in continuous mfr. of polyester plastics, esp. polyethylene terephthalate, by catalytic ester exchanger of dimethyl terephthalate with excess ethylene glycol (EG), followed by polycondensation of resultant bis-2-hydroxyethylene terephthalate. Ester exchanger is carried out with constant stirring, mixt. being passed through level flow path sub-divided into at least 2 chambers, with temp. rising to polycondensation temp., so that MeOH formed distils off and EG vapour is condensed and pref. recycled to first chamber of ester exchanger stage.

Polyester with intrinsic viscosity suitable for tyre cord mfr. is obtd.

**International Patent Classification:** C08G-017/01; C08G-063/22

**Derwent Class:** A23 (Polyamides, polyesters, polycarbonates, alkyds)

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